

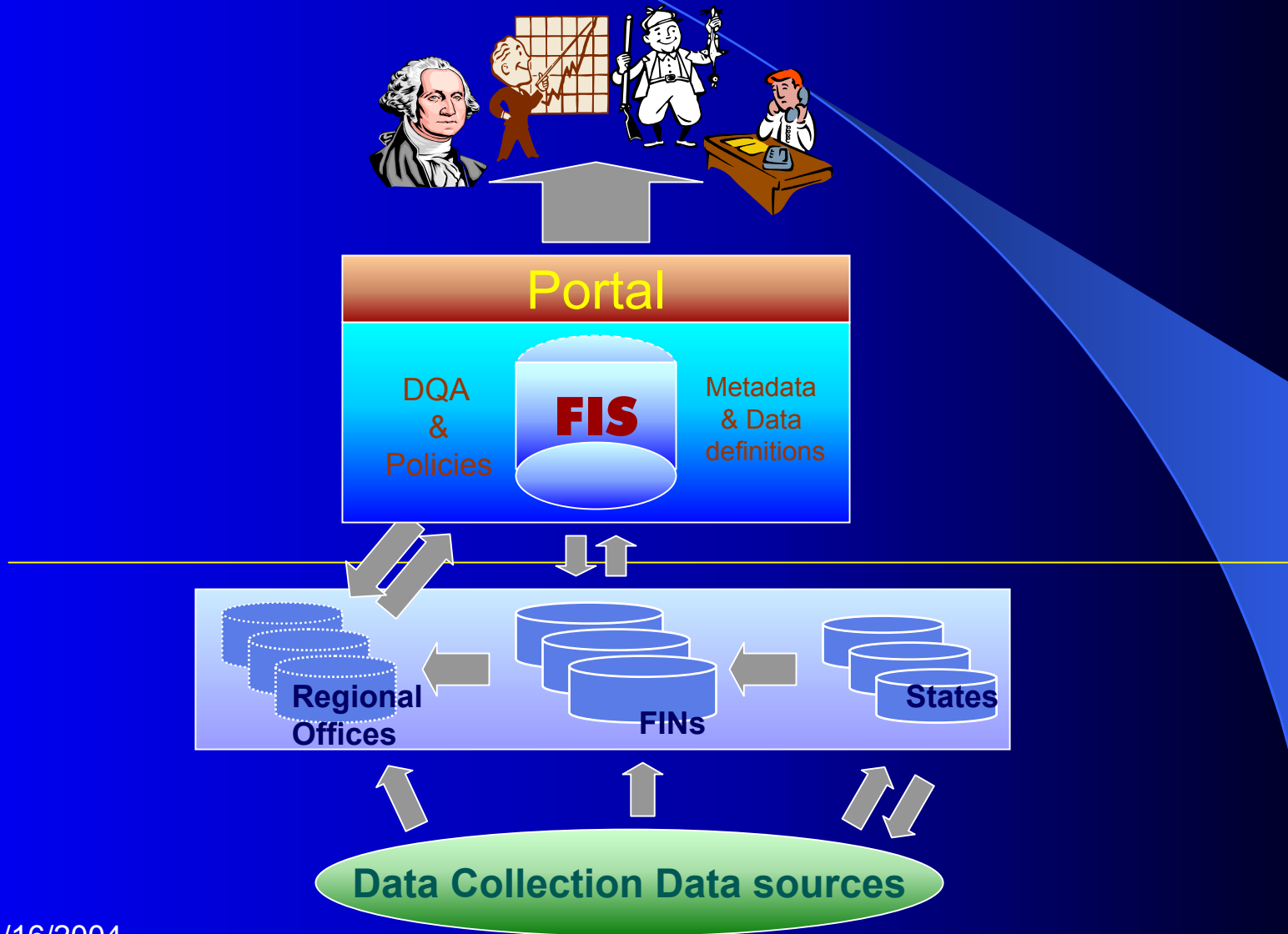
Fisheries Information System

National Vision Joint Decision

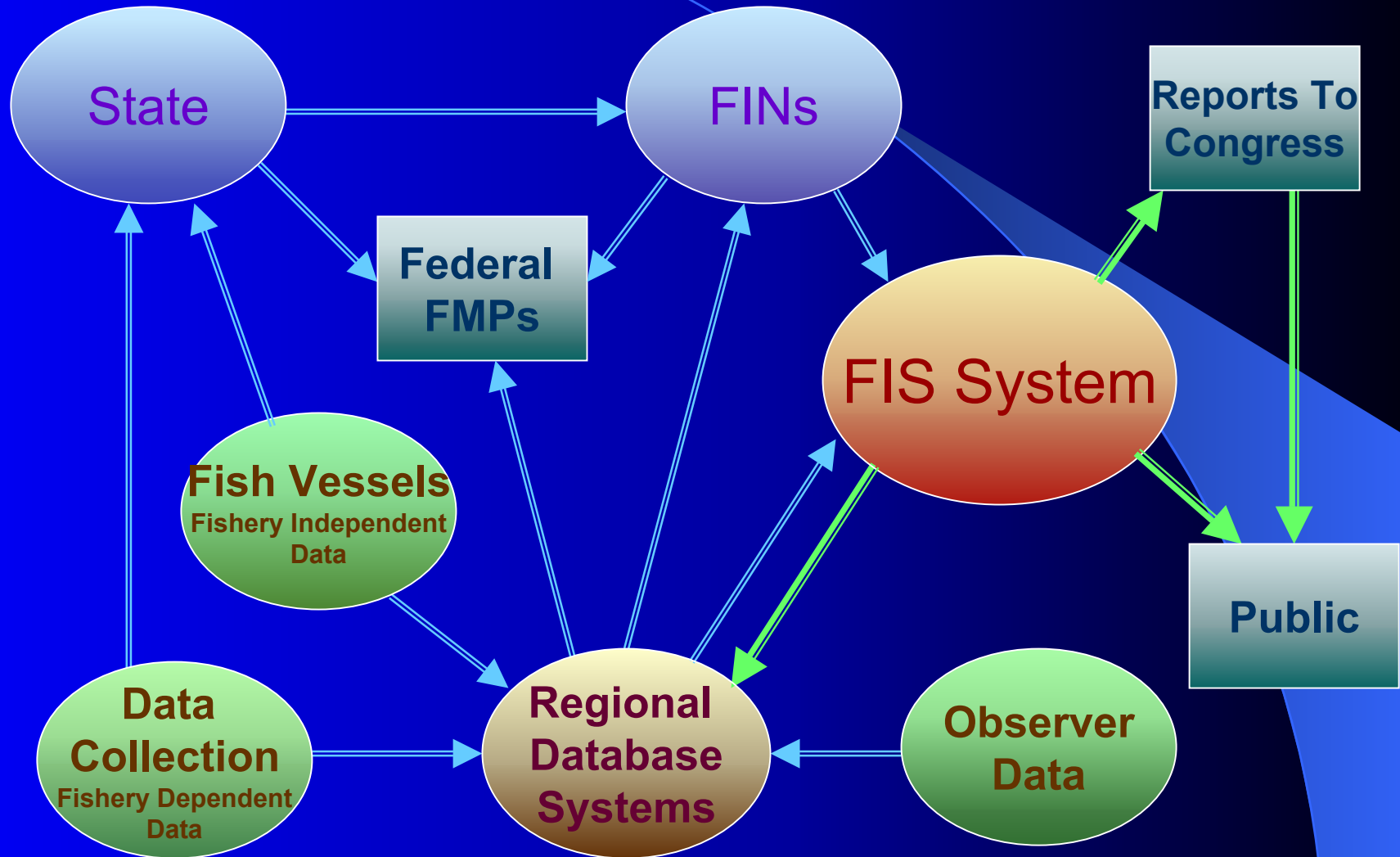


Presented by: Tina Chang
NMFS Science & Technology
April 2004

FISHERIES INFORMATION SYSTEM



Fisheries Data System





VISION, MISSION, AND GOALS

VISION:

- The national FIS team works collaboratively to build a quality national data management system to provide accurate, efficient, and timely resources and services supporting NMFS data analysis and decision support processes.

MISSION:

- *...NMFS to create an umbrella program to coordinate techniques used to gather and disseminate data on a national basis while continuing to account for the unique characteristics of regional commercial and recreational fisheries...*

- FY 98 Senate Mark

GOALS:

- Facilitate coordination and communication
- Consolidate information collected
- Build cross-regional and national tools
- Develop a unified electronic data management system
- Expand data collection
- Improve data quality



BACKGROUND

- 1996 Reauthorization of Magnuson Stevens FCMA
- Section 401: Secretary must create an implementation plan for a nationwide
 - Fisheries Information System (FIS)
 - Fishing Vessel Registration System (VRS)
 - Commercial/Charter Recreational

BUSINESS REQUIREMENTS

- Have adequate information to manage fisheries regionally and inter-regionally
- Provide summarized data on a national level
- Answer basic questions:
Who, what, where, when, why and how about participation across regions using nationally established reporting standards

CURRENT PROBLEMS

Dr. Hogarth's Goals

Tasking Memo – Feb. 2003

No standard way
of collecting data

Enhance Coordination
& collection of Data

Data quality issues and Data errors

Improve National
Data Quality

No centralized area to get commonly
used data for annual report

Enhance Data Integration

Inconsistent reporting
from multiple sources

Provide nationwide structure of data
standards for coverage, quality & exchange

No efficient tools available for
researchers to produce reports

Enhance Technology

Data not consistently available
at atomic level

Expand Regional Systems With
more & higher resolution data



BENEFITS

REGIONAL:

- Improved information for regional and cross-regional fisheries management decisions.
- Reduced staff burden responding to national and Inter-regional level requests for summarized data.
- Greater compatibility of information supporting daily business operations.
- Assistance from S&T and cross-regional cooperation with IT application development and data conversion.
- Assistance from S&T and cross-regional cooperation with implementation coding and meta data standards.

NATIONAL:

- Improved information available for national fisheries management discussions.
- Leveraging of limited resources across partner agencies to deliver more detailed, timely and appropriate data.
- Reduced data handling burden and duplicative system development across regions.
- Increased access to data for all clients at the appropriate levels of detail and specificity.
- Enhanced communication and professional credibility.



NEAR TERM ACTION ITEMS

- Integrate Federal and State data on trip based catch, effort, performance, and economic data collection.
- Initiate inter-regional comparisons to establish and uniformly define core data elements for common fisheries systems (landings, logbooks, permits, biological sampling).
- Continue progress in transition planning and system development guidelines.
- Expand and generalize current initiatives in Permits, Meta Data, and Electronic Reporting.

CRITICAL SUCCESS FACTORS

- Commitment of leadership from Regional Offices, Science Centers, and the headquarters
- Data Quality Analysis in support of integration
- Collaboration on metadata content
- Specific requirements in the form of report templates & metrics/performance indicators
- Funding



FIS 2003 NATIONAL MEETING

- Meeting Held during November 18 - 21
 - First time all partners met together under one roof
 - Discussed FIS vision and goals
 - Shared the best practices
 - Established Professional Specialty Groups
 - Committed of continuing working together to achieve the FIS goals and objectives



PSG (Professional Specialty Group)

- A technical group responsible for defining objectives in support of FIS goals and to oversee all aspects of the implementation of Fisheries Information System components
- The PSG is composed of headquarters, region and center business area and technical experts
- PSG policy document is developed to provide guidance and direction of PSG responsibilities



HOW PSG WORKS

- Build national expert teams to solve cross-regional and national issues
- Follow experiences and best practices
- Clear roles and responsibilities
- Goal oriented and strong commitment
- Regular meetings and yearly conferences
- Build consensus on business issues and use the best technology, developing applications to provide the best solutions.
- PSGs should work closely and collaboratively with Fisheries Information Networks and state agencies to reduce duplicated efforts and resources

EXAMPLE ONE

FIS Permits Data Elements View		NERO	SERO	NWRO	SWRO (Pending)	PIRO	AKRO	HSFCA
PERMITS								
These elements describe data pertaining to permits								
Data Element	Description							
<i>YEAR</i>	<i>Permit year.</i>	X						
DATE OF ISSUE	Date permit was issued	X	X		X	X	X	X
DATE OF RENEWAL APPLICATION	Date of the renewal application	X						
PERMIT PRINT DATE	Date permit was printed.	X						
PERMIT NUMBER	Permit number issued to either dealer, vessel, or person (ex. corporation, vessel owner, etc.)	X	X	X	X	X		
EFFECTIVE DATE	Start date of the issued permit.		X		X		X	
EXPIRATION DATE	Date permit expires.		X		X		X	X
PERMIT STATUS	Active, expired, renewed, inactive, pending, cancelled, etc.		X		X		X	
PERMIT STATUS DATE	Date Status was changed/initiated		X		X			
PERMIT DENIED DATE	Date permit was denied if applicable							X
PERMIT REVOKED/CANCELLED DATE	Date permit was revoked	X						X
REASON FOR REVOKE/CANCELLED	Reason the permit was revoked	X						X
PERSONS								
These elements describe data for owners whose vessels are permitted								
Data Element	Description							
OWNER RANK	Determines an owner's ranking - rank 1 is the primary owner, rank 2 is the secondary owner, etc.	X						
FIRST NAME	First name of person (i.e. owner, operator, etc.)	X	X	X	X	X	X	X
MIDDLE NAME	Middle name or initial of person (i.e. owner, operator, etc.)	X	X	X	X			
LAST NAME	Last name of the person (i.e. owner, operator, etc.)	X	X	X	X	X		X
NAME SUFFIX	Suffix (Esq., Sr., etc.) of the vessel owner	X	X		X			



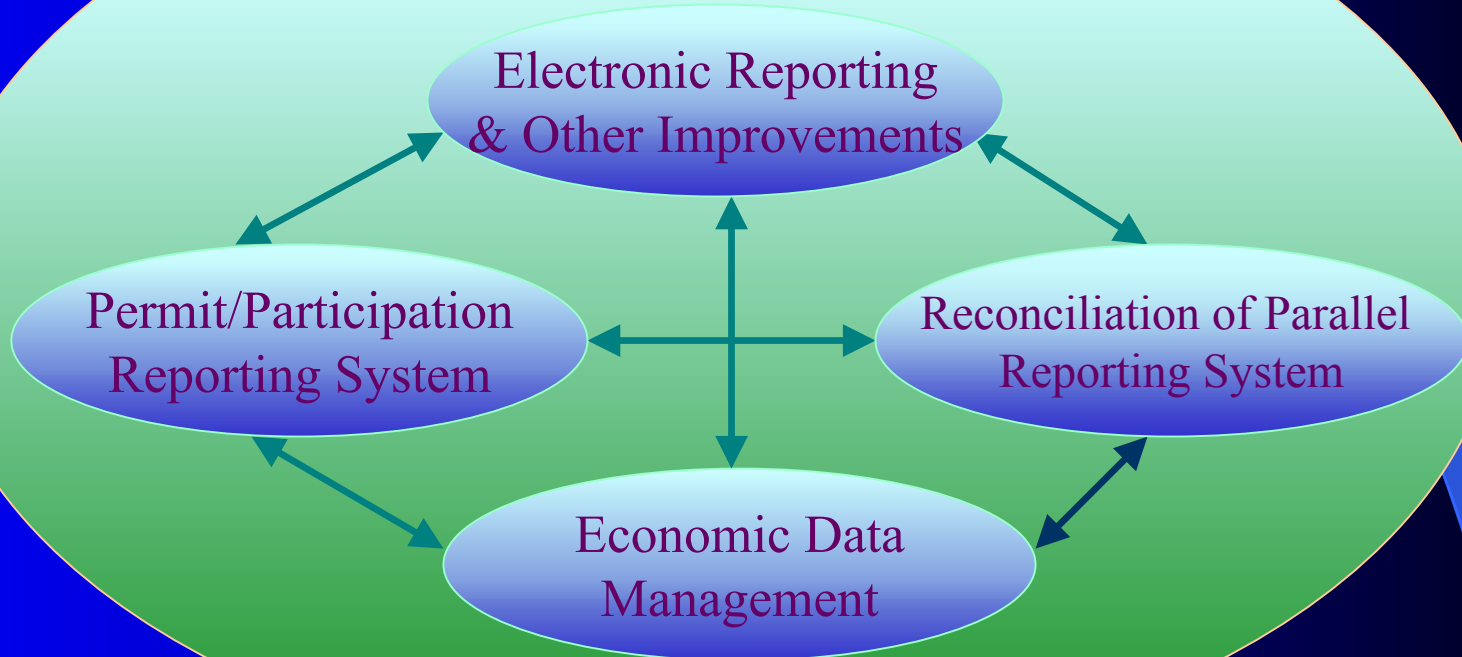
EXAMPLE TWO



	B	C	D	E	F	G	H	I	J	K	L	M	N
1	FY04 SDI PSG Plan												
2	SDI DESIGN AND INTEGRATION (SDI) (as of 3/16/04)												
3													
4	Priority (High, Medium, Low)	FIS Goal	Created (mm/dd/yy yyy)	Modified (mm/dd/yy yy)	Author/Leader	Objective	Cross-PSG Dependency	Required Skills/Le	Scope (if regional or cross- regional, please indicate affected regions)	Success Criteria	Obstacles	Estimated	
5	This column the priority level- High, Medium or Low based on time. This will be used to prioritize	Record the FIS goal letter(s) (A- F).	Record the objective's date of conception	Record any dates when the objective and associated items were modified	Who is the objective's leader? Who are the objective's team members?	Indicate the anticipated measurable objective &	List any/all additional PSGs needed to accomplish this objective	Indicate the type of skillset and the professional level required to fulfill this objective	Does this objective require regional, cross- regional or national support?	If regional or cross- regional, indicate the involved regions.	Indicate the criteria upon which you will measure this objective's success	Obstacles anticipated roadblocks that could ultimately prohibit this objective from being accomplished	Estimated cost resources and estimated term staff
6													
7													
8													
9	High	A	11/21/2003		Lead: John Witzig	Meet SFA goals and objectives: Coordinate and integrate national and regional efforts to improve fishery-dependent data collection programs that support NOAA Fisheries legislative mandates. (see documents on MSA Background; International Agreements)	N/A	Business Experts	<input type="checkbox"/> Regional <input type="checkbox"/> Cross-Regional <input checked="" type="checkbox"/> National		List of SFA goals and objectives, conceptual design	N/A	Three pe 80 hours
10				Members:									
11				Mike Cahall									
12				Steve Freese									
13													
14	Medium	D	11/21/2003		Lead: Karen Sender	Data Management policies and guidelines: Ensure the quality and integrity of fishery- dependent data and information required to fulfill the FIS goals, through the use of NMFS supported data management policies and guidelines. (see documents with related tasks) Task A. Inventory existing NMFS/NOAA/DOC data management policies and guidelines by Q3 2004. Task B. Identify Fisheries data management problems and issues in which existing NMFS/NOAA/DOC policies and guidelines do not address. Task C. Draft necessary policies and guidelines per above.	N/A	Editors	<input type="checkbox"/> Regional <input type="checkbox"/> Cross-Regional <input checked="" type="checkbox"/> National		Draft policy doc	1. Management may not support resulting policies and guidelines. 2. Constituent resistance to change could prevent adoption of policies and guidelines. 3. CIO support is needed to formally process and approve policies and guidelines.	people,
15				Members:									
16				Susan Molina									
17				Tina Chang									
18				Mukhya Khalsa									
19					Jim Sargent								
20	Low	A	11/21/2003		Lead: Tina Chang	System Scope and project Plan: Finalize detailed FIS objectives; work with PSG members identifying the system needs, boundaries, and scopes; and development a document as a road map for the successful implementations of the FIS project.		IRM Experts	All	Implementation p	Dependencies with other tasks, management support		Three pe
				Members:									

FIS PSG STRUCTURE

System Design & Integration





FY04 GOALS

- Metadata (eCatalog)
 - Complete metadata structure nationwide
 - Detailed metadata population
- FIS Portal Website
 - FIS integration webpage
- Cross Region data Inventory
- FIS system scope documentation



HOW CAN YOU HELP?

- Invest your best resource for the best outcome and keep the momentum going
- Check the FIS website often to keep current update of FIS progress:

<http://www.st.nmfs.gov/fis>

What is the Fisheries Information System (FIS)?

The Fisheries Information System (FIS) provides a context for the design, development, and implementation of data collection and data management for fishery dependent statistics nationwide to improve the timeliness and accuracy of data. FIS is a portal that identifies the existing federal and state fisheries information systems or databases (data collections) and provides integrated business solutions for effective information sharing. FIS supports fisheries management decisions by developing a virtual application environment and providing integrated business solutions and data sources in web browser interface.



Mission	Vision	Goals
To create an umbrella program that coordinates techniques to gather and disseminate data nationally while accounting for the unique characteristics of regional commercial and recreational fisheries.	The national FIS team works collaboratively to build a quality data management system to provide accurate, efficient and timely resources and services supporting fisheries data analysis and decision processes.	Build national fisheries information expert teams to share ideas, successes and experiences in the management of Fisheries information.
Poster	Poster	Poster

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CONCLUSION

- Demonstrate teamwork ...
- One step at a time...
- With ...

